



2790 Whitten Road, Memphis, TN 38133  
Main 901.213.2400 • Fax 901.213.2440  
[www.waypointanalytical.com](http://www.waypointanalytical.com)

7/25/2016

Tarno Crop Management  
Chris Tarno  
P.O. Box 554  
Piggott, AR, 72454

Ref: Analytical Testing  
Lab Report Number: 16-182-0279  
Client Project Description: Analytical Testing

Dear Chris Tarno:

Waypoint Analytical, Inc. received sample(s) on 6/30/2016 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '-' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

A handwritten signature in black ink that reads "Randy H. Thomas".

Randy Thomas  
Project Manager

*Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.*

Alabama #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180-11-6	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	Virginia #00106
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #41	Kansas #E-10396





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Client: Tarno Crop Management  
Project: Analytical Testing  
Lab Report Number: 16-182-0279  
Date: 7/25/2016

**CASE NARRATIVE**

**Phenoxy Acid Herbicides - GC/ECD Method SW-8151A**

QC Batch No: L293740

Analyte was detected in both the primary and confirmatory analyses, with a relative percent difference (RPD) of greater than 40% between the two results. These results are flagged Q and the lower of the two values is reported. Analytes with RPD values greater than 100% are reported as non-detect.

Sample 96602 (#1)

QC Batch No: L293740

Surrogate(s) flagged for recovery outside QC limits in this project sample due to a required dilution. The dilution factor resulted in surrogate concentration(s) below the minimum detectable level. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.



18327

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 Chris Tarno  
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Project Analytical Testing  
 Information :

Report Date : 07/25/2016  
 Received : 6/30/2016

*Rendell H. Thomas*

Report Number : 16-182-0279

### REPORT OF ANALYSIS

Randy Thomas  
 Project Manager

Lab No : 96602

Sample ID : #1

Matrix: Formulation

Sampled:

Analytical Method:	8151A	Prep Batch(es):	L293421	07/07/16 14:20			
Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2,4-D	106 Q	mg/Kg	83.2	1000	07/12/16 17:20	VIC	L293740
Dalapon	<20.8	mg/Kg	20.8	100	07/12/16 17:03	VIC	L293740
2,4-DB	<8.32	mg/Kg	8.32	100	07/12/16 17:03	VIC	L293740
Dicamba	144000	mg/Kg	4160	100000	07/12/16 17:53	VIC	L293740
Dichlorprop	<41.6	mg/Kg	41.6	100	07/12/16 17:03	VIC	L293740
Dinoseb	<20.8	mg/Kg	20.8	100	07/12/16 17:03	VIC	L293740
MCPA	<416	mg/Kg	416	100	07/12/16 17:03	VIC	L293740
MCPP	<416	mg/Kg	416	100	07/12/16 17:03	VIC	L293740
Picloram	<10.4	mg/Kg	10.4	100	07/12/16 17:03	VIC	L293740
2,4,5-T	<4.16	mg/Kg	4.16	100	07/12/16 17:03	VIC	L293740
2,4,5-TP (Silvex)	<4.16	mg/Kg	4.16	100	07/12/16 17:03	VIC	L293740
Surrogate: DCAA	0 *		Limits: 20-150%	100	07/12/16 17:03	VIC	L293740

<b>Qualifiers/ Definitions</b>	*	Outside QC limit	B	Analyte detected in blank
	DF	Dilution Factor	MQL	Method Quantitation Limit
	Q	RPD >40% dual column results		



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Project Analytical Testing  
 Information :

Report Date : 07/25/2016  
 Received : 6/30/2016

*Randall H. Thomas*

Report Number : 16-182-0279

### REPORT OF ANALYSIS

Randy Thomas  
 Project Manager

Lab No : 96603

Matrix: Solids

Sample ID : #2

Sampled:

Analytical Method:	8151A	Prep Batch(es):	L293132	07/05/16 11:45			
Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2,4-D	<0.0304	mg/Kg	0.0304	1	07/07/16 17:02	VIC	L293540
Dalapon	<0.0763	mg/Kg	0.0763	1	07/07/16 17:02	VIC	L293540
2,4-DB	<0.0304	mg/Kg	0.0304	1	07/07/16 17:02	VIC	L293540
Dicamba	<b>0.0043</b>	mg/Kg	0.0030	1	07/07/16 17:02	VIC	L293540
Dichlorprop	<0.0304	mg/Kg	0.0304	1	07/07/16 17:02	VIC	L293540
Dinoseb	<0.0304	mg/Kg	0.0304	1	07/07/16 17:02	VIC	L293540
MCPA	<7.59	mg/Kg	7.59	1	07/07/16 17:02	VIC	L293540
MCPP	<7.59	mg/Kg	7.59	1	07/07/16 17:02	VIC	L293540
Picloram	<0.0076	mg/Kg	0.0076	1	07/07/16 17:02	VIC	L293540
2,4,5-T	<0.0030	mg/Kg	0.0030	1	07/07/16 17:02	VIC	L293540
2,4,5-TP (Silvex)	<0.0030	mg/Kg	0.0030	1	07/07/16 17:02	VIC	L293540
Surrogate: DCAA	26.7		Limits: 20-150%	1	07/07/16 17:02	VIC	L293540

<b>Qualifiers/ Definitions</b>	*	Outside QC limit	B	Analyte detected in blank
	DF	Dilution Factor	MQL	Method Quantitation Limit
	Q	RPD >40% dual column results		



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Project Analytical Testing  
 Information :

Report Date : 07/25/2016  
 Received : 6/30/2016

*Randall H. Thomas*

Report Number : 16-182-0279

### REPORT OF ANALYSIS

Randy Thomas  
 Project Manager

Lab No : 96604  
 Sample ID : Vision

Matrix: Formulation  
 Sampled:

Analytical Method:	8151A	Prep Batch(es):	L293421	07/07/16 14:20			
Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2,4-D	118	mg/Kg	8.32	100	07/12/16 18:10	VIC	L293740
Dalapon	<20.8	mg/Kg	20.8	100	07/12/16 18:10	VIC	L293740
2,4-DB	<8.32	mg/Kg	8.32	100	07/12/16 18:10	VIC	L293740
Dicamba	220000 Q	mg/Kg	4160	100000	07/12/16 19:00	VIC	L293740
Dichlorprop	<41.6	mg/Kg	41.6	100	07/12/16 18:10	VIC	L293740
Dinoseb	<20.8	mg/Kg	20.8	100	07/12/16 18:10	VIC	L293740
MCPA	<416	mg/Kg	416	100	07/12/16 18:10	VIC	L293740
MCPP	<416	mg/Kg	416	100	07/12/16 18:10	VIC	L293740
Picloram	<10.4	mg/Kg	10.4	100	07/12/16 18:10	VIC	L293740
2,4,5-T	<4.16	mg/Kg	4.16	100	07/12/16 18:10	VIC	L293740
2,4,5-TP (Silvex)	<4.16	mg/Kg	4.16	100	07/12/16 18:10	VIC	L293740
Surrogate: DCAA	69.9		Limits: 20-150%	100	07/12/16 18:10	VIC	L293740

Qualifiers/  
 Definitions

\*

Outside QC limit

B

Analyte detected in blank



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### Cooler Receipt Form

Customer Number: 18327

Customer Name: Tarno Crop Management

Report Number: 16-182-0279

#### Shipping Method

Fed Ex

US Postal

Lab

Other:

UPS

Client

Courier

Thermometer ID:  NA

Shipping container/cooler uncompromised?  Yes  No

Number of coolers received  1

Custody seals intact on shipping container/cooler?  Yes  No  Not Required

Custody seals intact on sample bottles?  Yes  No  Not Required

Chain of Custody (COC) present?  Yes  No

COC agrees with sample label(s)?  Yes  No

COC properly completed  Yes  No

Samples in proper containers?  Yes  No

Sample containers intact?  Yes  No

Sufficient sample volume for indicated test(s)?  Yes  No

All samples received within holding time?  Yes  No

Cooler temperature in compliance?  Yes  No

Cooler/Samples arrived at the laboratory on ice.  
 Samples were considered acceptable as cooling process had begun.

Water - Sample containers properly preserved  Yes  No  N/A

Water - VOA vials free of headspace  Yes  No  N/A

Trip Blanks received with VOAs  Yes  No  N/A

Soil VOA method 5035 – compliance criteria met  Yes  No  N/A

High concentration container (48 hr)  Low concentration EnCore samplers (48 hr)

High concentration pre-weighed (methanol -14 d)  Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included?  Yes  No

Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Brieanna Jackson

Date & Time: 06/30/2016 17:41:26

Client Name/Address TANDEM Corp. Management P.O. 4282 Ringgold, AR 72654		Client Project Manager/Contact		Billing Information		act # 18327		For Laboratory Use Only	
Project Description		Project/Site Location (City/State)		<input type="checkbox"/> RUSH - Additional charges apply <input type="checkbox"/> Special Deflection Limit(s) Date Results Needed		<input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Client Drop Off <input type="checkbox"/> Other		Matrix Key WW - Wastewater GW - Groundwater DW - Drinking Water S - Soil /Solid O - Oil P - Product M - Misc	
Project Number	Project Manager Phone #	Project Manager Email				Purchase Order Number		Site/facility ID #	
Waypoint ANALYTICAL 2790 Whitten Road Memphis, TN 38133 (901) 213-4600		870-210-4282		tae00chris@gmail.com					
Date	Time	Sample Identification				Required Analysis / Preservative		Comments/Notes	
6-29		#		1	A	X		AQUEOUS (lower) only	
6-29		#2		1	PT	X		PT	
6-29		Vision		1	A	X		5 gallon unopened.	
 16-182-0279 18327 06-30-2016 17:40:58 Tamo Cico Management Analytical Testing									
PAID 1K 18327 #150.00 6.30.16 J. Smith									
For Laboratory Use Only		Lab Comments		Sampled by (Name - Print) Chris TARCIO		Received by (Signature) Chris TARCIO		Client Remarks/Comments	
Ice	Custody Seals								
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
Blank/Carrier Temp									
NA									